Application No.: Not Yet Assigned Docket No.: O3020.0358/P358

that a peak angle of the mainlobe in the next irradiation direction may become an angle of a first null point in the previous irradiation direction.

Claim 5 (currently amended): [C5] The object detecting method according to any one of claims 1, comprising a step of dividing a detection region into a plurality of bearings, and storing a pattern of relative variation of reflection power in intensity in each irradiation direction when an object exists in the bearing, as a reference pattern in each bearing; and

specifying a bearing in which a detection object exists by comparing the pattern obtained from the received echo with the reference pattern in each bearing.

Claim 6 (currently amended): {C6} An object detector comprising:

an antenna irradiating beams in a plurality of irradiation directions by switching an irradiation direction of a mainlobe by stages, and receiving an echo from a detection object obtained in the mainlobe or a sidelobe in each irradiation direction;

means for finding reflection power intensity in each irradiation direction from the received echo; and

means for specifying a bearing in which the detection object exists based on a pattern of relative variation of the reflection power intensity in each irradiation direction.

Claim 7 (currently amended): [C7] The object detector according to claim 6, wherein the reflection power intensity is found from the received echo without distinguishing between the echo obtained from the mainlobe and the echo obtained from the sidelobe.